

# Achieve™ Advanced PP7123KNE1

## Polypropylene Impact Copolymer

## Product Description

A medium impact copolymer resin designed for appliance applications requiring high gloss and good stiffness.

General					
7 (1-0.105)ey	<ul> <li>Asia Pacific</li> </ul>				
	<ul><li>Good Processability</li><li>High Gloss</li></ul>		<ul><li>High Stiffness</li><li>Medium Flow</li></ul>	<ul><li>Medium Impact Resistance</li><li>Nucleated</li></ul>	
Uses	<ul> <li>Appliance Compone</li> </ul>	Appliance Components • Appliances • Consumer A		ımer Applications	
Appearance	<ul> <li>Natural Color</li> </ul>				
Form(s)	<ul> <li>Pellets</li> </ul>				
	<ul> <li>Injection Molding</li> </ul>				
-	• 09/29/2016				
1.6.1.5.6.1.2.6.6	07,27,20.0				
Physical	Typical Value	(English)	Typical Value	(SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg	g) 11	g/10 min	11	g/10 min	ASTM D1238
Density		g/cm³		g/cm³	ExxonMobil Method
Mechanical	Typical Value	(Enalish)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield	7,7,00, 13100	(=9)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(=-)	ASTM D638
2.0 in/min (51 mm/min)	4740	psi	32.7	MPa	- ···
Tensile Stress at Yield (73°F (23°C))	4470			MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (51 mm/min				%	ASTM D638
Tensile Strain at Yield	5.8			%	ISO 527-2/50
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	228000	psi	1570	MPa	ASTM D790A
0.51 in/min (13 mm/min)	260000	•		MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	244000	psi	1680	MPa	ISO 178
	Tire in all Value	(Fa aliah)	Trainel Value	(CI)	Test Based On
Matched Irod Impact	Typical Value	(Eligiisii)	Typical Value	(31)	Test Based On ASTM D256A
Notched Izod Impact 0°F (-18°C)	0.50	ft·lb/in	27	J/m	ASTIVI DZ30A
73°F (23°C)		ft·lb/in		J/m	
Notched Izod Impact Strength	1.0	וויוט/ווו	63	3/111	ISO 180/1A
-22°F (-30°C)	1.2	ft·lb/in²	2.5	kJ/m²	130 100/1A
-4°F (-20°C)		ft·lb/in²		kJ/m²	
32°F (0°C)		ft·lb/in²		kJ/m²	
73°F (23°C)		ft·lb/in²		kJ/m²	
Charpy Notched Impact Strength	5.5		0.7	,	ISO 179/1eA
-22°F (-30°C)	11	ft·lb/in²	24	kJ/m²	130 1777 TEA
-4°F (-20°C)		ft·lb/in²		kJ/m²	
32°F (0°C)		ft·lb/in²		kJ/m²	
73°F (23°C)		ft·lb/in²		kJ/m²	
		-		()	
hermal (1.22.12)	Typical Value		Typical Value		Test Based On
Heat Deflection Temperature (1.80 MPa)	129			°C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	216			°C	ISO 75-2/Bf
Deflection Temperature Under Load (DTUL at 66psi - Unannealed	) 241	°F	116	°C	ASTM D648
DTUL (66 psi) - Annealed	255	°F	124	°C	ASTM D648
Ontical	Typical Value	(English)	Typical Value	(SI)	Tost Pasad Oa
Optical Class (10%)	Typical Value	(English)	Typical Value		Test Based On
Gloss (60°)	89		89		ASTM D523

Effective Date: 09/29/2016 ExxonMobil Page: 1 of 2



## Achieve<sup>™</sup> Advanced PP7123KNE1 Polypropylene Impact Copolymer

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	96	96	ASTM D785

### Legal Statement

This product, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use. For detailed Product Stewardship information, please contact Customer Service.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

#### Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

#### For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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